

# Space and Naval Warfare Systems Center Charleston

## Command Overview

CAPT Red Hoover – Commanding Officer

Mr. James D. Ward – Executive Director



**Fully Netted  
in Four**

# C4ISR - Connecting the Warfighter

## C4ISR

Command

Control

Communications

Computers

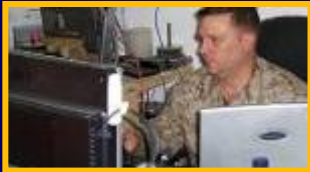
Intelligence

Surveillance &

Reconnaissance

**Team SPAWAR...**

Connecting the Warfighter  
to the resources needed to  
win GWOT



- Network Systems & Support
- Physical & Computer Security
- Command & Control
- Information Assurance
- Sensor Systems
- Communications
- Image Processing
- Wireless Technologies
- Cryptologic & Intelligence
- Command Center Services
- Visual Information Systems
- ✓ Information Technologies
- ✓ Modeling & Simulation
- ✓ Navigation
- ✓ Meteorology
- ✓ ATC/ Technical Services

### Major

### Locations:

Charleston, SC  
Jacksonville, FL  
Pensacola, FL  
Tampa, FL  
Tidewater, VA  
Washington, DC

### Overseas:

Afghanistan  
Antarctica  
Bahrain  
Germany  
Iraq  
Italy  
Spain  
U.K.



Systems Center  
Charleston

# Team SPAWAR... Connecting the Warfighter

**Mission-** We enable knowledge superiority to Naval and Joint Warfighters through the development, acquisition, and life cycle support of effective, integrated C4ISR systems, Information Technology, and Space capabilities.

**Vision-**  
Fully Netted  
in Four

**We are the**  
Principal C4I  
Acquisition  
Engineering &  
Integration  
Center on the  
East Coast  
& Principal  
C4ISR ISEA  
for the Navy



**MWR- MobileNet**



Leveraging  
Technology



**Body Worn  
Variant**



**NETCOP-Network Common  
Operating Picture**

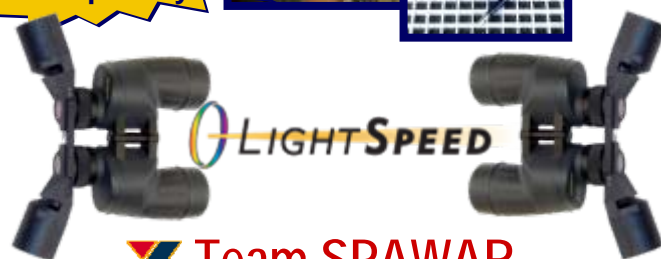
**IR Pocketscope**



Rapid  
Prototyping



Speed to  
Capability



**Team SPAWAR...**  
**Connecting the Warfighter to**  
**the resources needed to win**  
**GWOT**





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# SSC Charleston Delivering GWOT Capability

66 Projects 209 Contractor Trips 34 Civil Servant Trips

APR 2004 – MAR 2006



Team Blue Force Situational Awareness, Fallujah, Iraq



Combined Joint Task  
Force, Horn of Africa



Internet Café, Balad Iraq

Containerized Airport  
Surveillance Radar, Balad Iraq



USCENTAF ATC Facilities  
And Systems Integration



Internet Cafe

Marine Corps System Command  
Up Armored HMMWV (UAH)  
Integration, Kuwait





# Strategy Map

*Three*  
S1 "Fully Netted in ~~Four~~"

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Fully Netted Force

Customer

C1 Provide Composeable  
C4ISR Capability

To drive the delivery of  
net-centric solutions.

C3 Provide Organized  
Accessibility

Balance the Right Readiness  
With Right Cost

Financial

To measure how we are  
delivering FORCEnet in a  
Sea Enterprise  
environment.

To remain good stewards  
of the taxpayer's money.

F2 Manage Cost of  
Operations

F3 Optimize Return on  
Assets

Effects

Internal

Customer Focused

To develop and practice  
world class engineering  
and business processes.

Mission Focused

IM1

Perform Core  
Work In-House

IM2

Enable Capacity  
for Context Work

Process Focused

IP1

Develop a World  
Class Systems Engineering  
Capability

IP2

Develop a World Class  
Business Operation

Drivers

Learning  
& Growth

Human Capital

To continually learn and  
grow as an innovative  
team.

HC3

Develop Proactive &  
Visionary Leadership

Organizational Capital

OC1

Enable an Empowered,  
Collaborative &  
Synchronized Environment

Information Capital

IN-C1

Achieve  
Strategy-Focused,  
Shared Awareness, &  
Aligned Effect



**Mission:** What holds us accountable  
**Enabling knowledge superiority to the Naval and Joint Warfighters . . .**

**Resource Engine \$**  
**Business revenue from government and private party customers**

**Discriminator:** What we are known for  
**Real time, adaptable & efficient acquisition and in-service engineering**

**FORCEnet @ Sea Enterprise Rates**



SPAWARSYSCEN

**ISEA**  
*next*

The **C4I** Behavior Model  
**C**ollaboration,  
**C**ommon solutions,  
**C**ross-boundary  
**C**ooperation & **I**nclusion

*Sea Enterprise: Improve the Navy  
business operations "effectiveness &  
efficiency" to free resources for the 21<sup>st</sup> century Navy.*



**In-Service Engineering Agent (ISEA)**

# Recapitalization Goals

- Rapid response
- Highly flexible sustainment chain
- Modular and composable capabilities negotiating with one another
- Self-synchronizing networks via a common environment and shared objectives
- Use of Info Tech for data sharing, commitment tracking and role reconfiguration



*Single Fleet-Driven Metric: "SEA AGILITY: warships ready for tasking today, tomorrow, and future at reduced cost"*





# In-Service Readiness Concepts



## Test and Evaluation

- Remote Test Conduct & Control
- Live Data Analysis
- Modeling Simulation & Live Fire Integration
- Joint Testing



## Human Systems Integration

- Real Time Training
- Mission Adaptive Capabilities & Limitations
- Interactive Courseware
- Battle Force Simulation Training



## Improvement

- Download Latest Changes
- Technology Refresh
- Update Technical Documentation
- Change Verification & Validation
- Automated Configuration Control



## Readiness

- Remote System Monitoring
- Remote Diagnostics
- Predictive Analysis
- Proactive Support
- Remote Casualty Resolution
- Readiness Status
- Predictive Logistics

Integrated solutions that link capability, maintainability, reliability, availability & supportability

Accelerate Change

Improve Readiness

Reduce Cost



## Integrated End-to-End Test

- Cross System Testing
- Cross Function Testing
- Hardware In The Loop Simulation
- C4ISR Readiness Testing
- PITCO

## Technology Transition Engineering

- Platform Integration
- Exercise Planning
- Platform Configuration Mgmt

## Installation/Production/Implementation

- Production Prototyping
- Platform Systems Design
- Systems Configuration Management
- Shore & Ship Installation Management
- Systems Planning Test & Evaluation
- Program Management Support

## Technology Transition & Sustainment



## C4I Training Institute

- Classroom Training
- Curriculum Development
- Reusable Training Modules
- Networks
- SATCOM

## Enterprise Solutions

- ERP Solutions
- Workflow Tools
- Workforce Mgmt Tools
- Program Cost Estimation
- Remedy

## Lifecycle Management

- ISEA's
- Lifecycle Engineering
- Logistics
- Long Term Sustainment
- Depot

*The Bridge Between the Warfighter and C4ISR Technology*

# The Drivers of Tomorrow ...

**Surge Support**  
**Global Deployment**  
**Reduced Manning    New Technologies**  
**Spiral Development**  
**Lean Processes**



**Test and Evaluation**



**Human Systems Integration**



**Improvement**



**Readiness**

## Workforce

- ✓ Composition
- ✓ Recruiting
- ✓ Development
- ✓ Retention
- ✓ Succession
- ✓ NSPS

## Infrastructure

- ✓ Connectivity
- ✓ Facilities & Equipment
- ✓ Joint / Multinational / Interagency Labs
- ✓ Virtual Test Capability
- ✓ Multi-Site Integration

## Processes

- ✓ Design
- ✓ Test & Evaluation
- ✓ Fleet Support
- ✓ Technical Documentation
- ✓ Installation / Modernization
- ✓ Readiness Assessments
- ✓ Configuration Management

## Tools

- ✓ Data Access
- ✓ Data Integration
- ✓ Distance Support
- ✓ Predictive

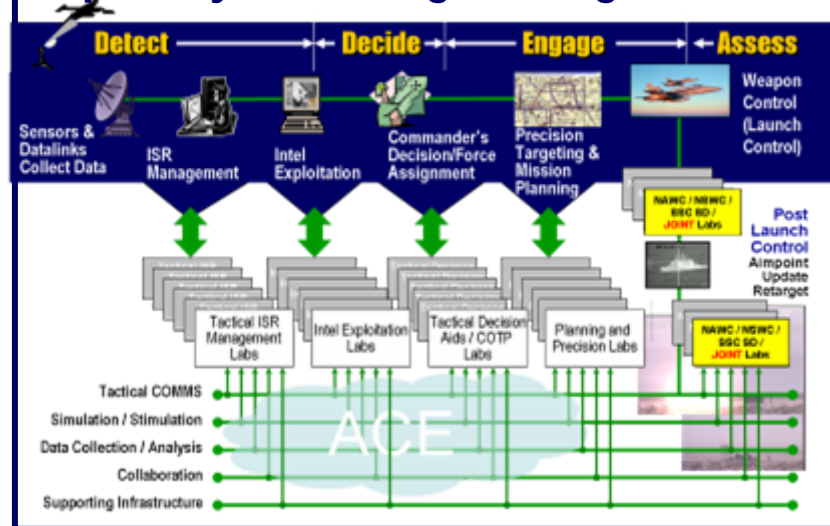


# The Drivers of Tomorrow . . . Are Being Addressed Today

## Virtual Presence



## Capability Based Engineering Framework



- Aligning our equities to the "kill chain"
- Disciplined, repeatable processes
- Internal technical reviews
- Removing variation from product line
- Operationalizing FORCEnet

**"SPAWAR Charleston is operationalizing FORCEnet ."**

**ADM James R. Hogg (Ret),**

**Director, CNO SSG 02 June 2006**

### Lean Six Sigma

1 Government Master Black Belt  
27 Black Belts  
126 Green Belts  
633 Yellow Belts  
1,625 White Belts  
48 Executives/Sr. Managers trained

FY 06 Goal: Sr. leadership achieve Green Belt

### CMMI

Level 2 Certification Achieved CMMI/SE Training: 2672 students trained in CMMI processes (including trained in CMMI)

FY 07 Goal: CMMI Level 3 Maturity



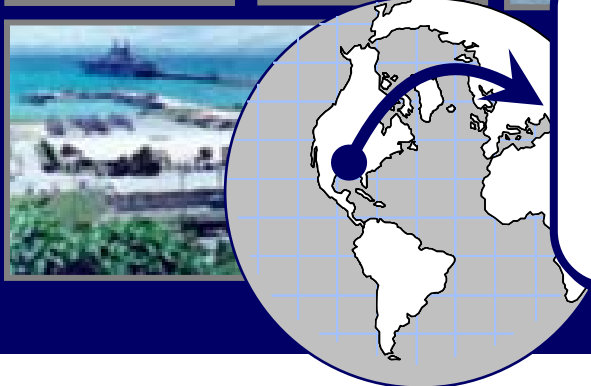
# Fleet Response Plan

## SHORE Installs

Region	FY04	FY05	FY06
--------	------	------	------

Atlantic Classified Site	4	5	
Atlantic North East (incl. Iceland)	4	3	
Atlantic South East (incl. S. America)	20	22	1
Central Command AOR	75	15	3
Mediterranean	36	43	5
Mid-Atlantic Region	30	50	6
National Capitol Region (incl. SYSCOMs)	8	7	
North Europe (excl. Iceland)	13	4	

Total	190	149	15
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Aligned to  
FFC from  
the  
Mississippi  
to Bahrain

## SHIP Installs

Home Port	FY04	FY 05	FY 06
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Auxiliary	35	12	
Baltimore, MD	1		
Bangor, WA	1	1	1
Bremerton, WA	8	2	
Earle, NJ	8	4	
Everett, WA	41	9	1
Gaeta, IT		1	
Groton, CT	97	56	56
Ingleside, TX	71	45	57
Kings Bay, GA	4		1
La Maddalena, IT	3	2	
Little Creek, VA	66	41	48
Manama, BR	15	1	28
Mariana Island, GM	2	1	1
Mayport, FL	107	119	70
New Construction	2	5	18
Norfolk, VA	543	536	349
Other IDB		3	
Pascagoula, MS	12	12	17
Patrol / Mobile		17	
Pearl Harbor		1	
Pearl Harbor, HI	32	7	1
San Diego, CA	70	40	7
Sasebo, JA	9	2	
Special	6	2	
USCG	6		
Yokosuka, JA	17	4	1

Total	1156	924	656
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**Lean**  
Improving  
processes  
by  
eliminating  
waste

**Six  
Sigma**  
Improving  
processes  
by  
eliminating  
variations

## In Progress

Closing Out Open NMCI Seats
Hostile Threat
Delivery Order/DCMR Process Improvement
COR - Contracts
Personnel Action Worksheet Request
Up-Armored HMMWV Project
Expeditionary Force Projects
Advanced Technology Awareness
Telecom Operational Benefit Improvement
NMCI Operational Burden Reduction
Intro - IT into RDT&E Enterprise Environ.
Installations
Systems Engineering
CASREP / Readiness
Configuration Management

**\*FY05:** Estimated cost per event: \$53K  
Forecasted cost savings: \$1.57M

## 2006: Planned

Passports
Hiring
Co-op / Intern New Professionals
Training – DOE
JCSE Project
WSA Package
Code 50 Tampa Contract Process
6S IVSS / SVDS Relocation
Single Source Sign-on
Issuance of Technical Warrants
Facility Space Allocation
Council of Branch Heads EPS / VSA
IPC Lab 1L1 6S Work Place Org.
IPC 1L7 & 8 6S Work Place Org.
Code 0A Value Streams
Contractor Space

**\*FY06:** Projected cost per event: \$30K  
Projected cost savings: \$1.77M

\*Based on FY average

# Driving Return on Equity

## • Modern Facilities to meet Customers' Needs

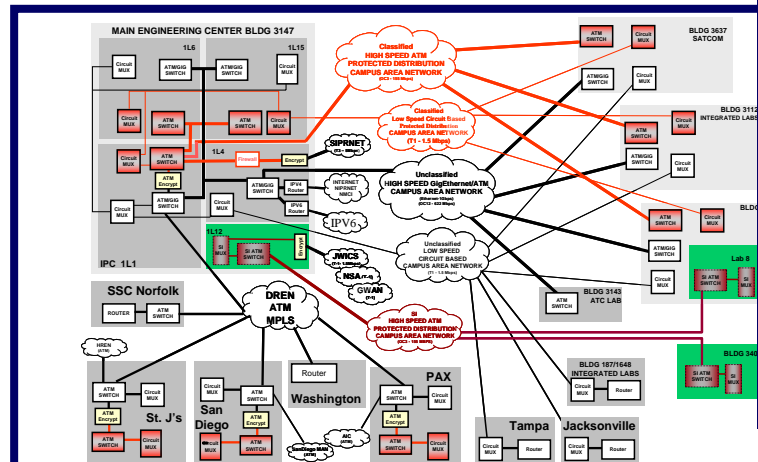
- Over 1.6 Million Sq. Ft. of State-of-the-Art Engineering Facilities Valued ~ \$250M

## • Designed to handle a diversity of functions

- Development/Engineering
- Production
- Testing
- Life Cycle Support

## • Facilities include

- Command Lab
- Secure Environment
- Computer Networks (LAN/WAN)
- Electromagnetic Environment
- Video Teleconferencing
- Training Lab/Facilities
- Conference Facilities
- Flexible Configuration
- Sensitive Compartmented Information Facility (SCIF)



## SSCC Engineering Building Network Centric Warfare Lab



Main Engineering Center



Bldg 3112/3113



Antenna Farm



ATC

## Intellectual Capital Strategy

**"Our employees are the only asset we have that can appreciate in value; all other assets depreciate."**

James D. Ward, Executive Director

### Employing the Best

*Using tools Available.  
Using the System, Our location,  
Modern Facilities and Technology*

### Restructuring the Workforce

*Aligning Intellectual Capital with the  
Business Strategy*

### Evaluating the Workforce

*Rewarding Behavior and  
Performance*

### Workforce Development

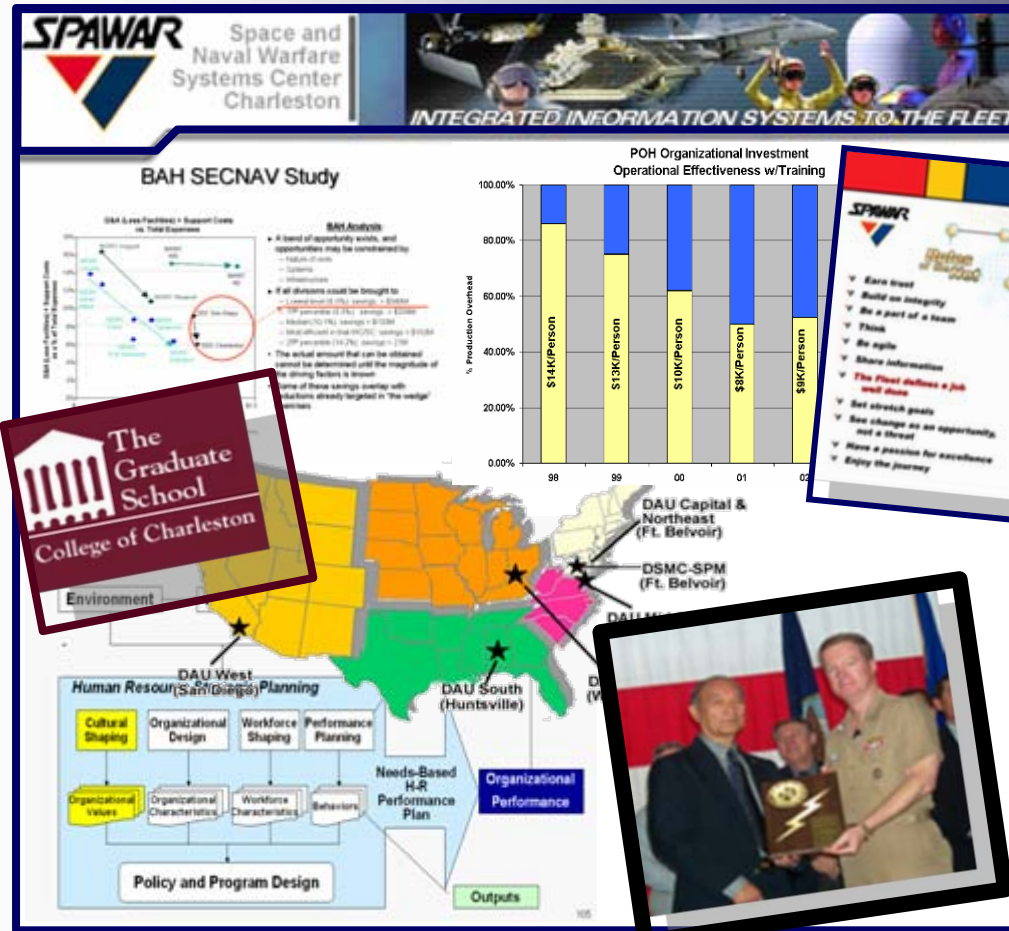
*Keeping Skills Current*

## Optimizing Return on Human Resources



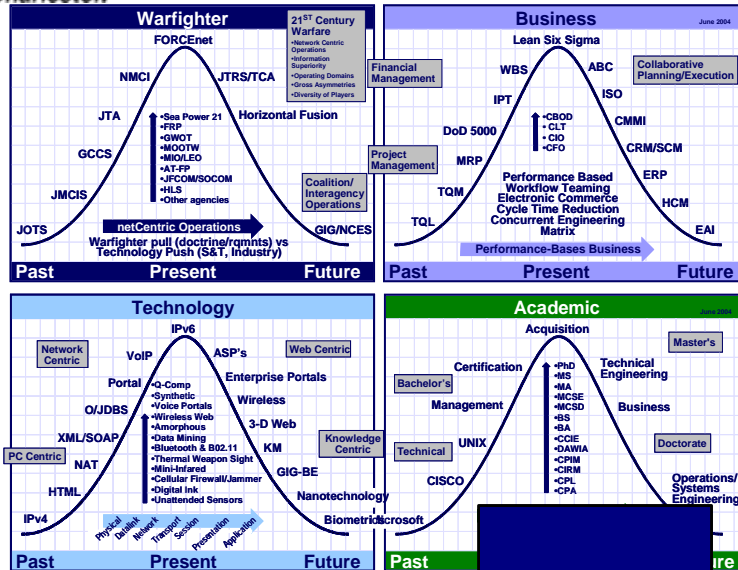
## Encouraging Innovation

Ability to develop and retain high-performing employees through appropriate compensation, incentives, and rewards, ensuring accountability of individual and team performance.

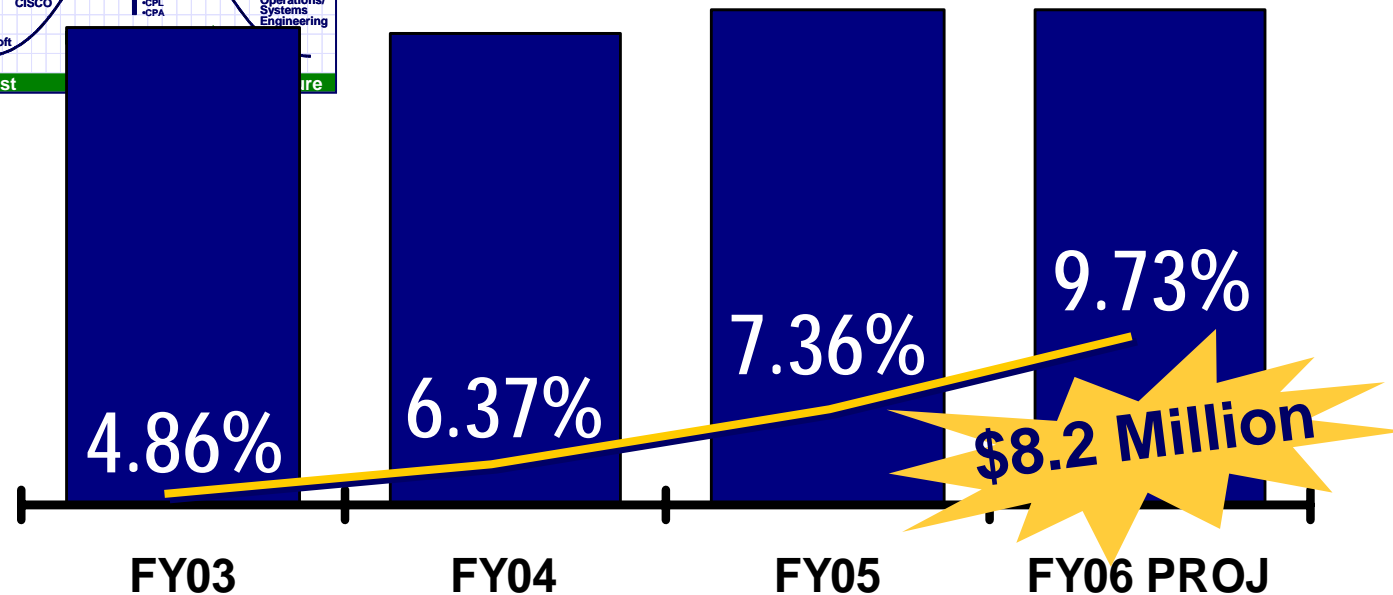


Recruit  
Align  
Plan  
Train  
Results  
Educate  
Retain  
Reward  
Invest

# Employee Development Investment



Percentage of Overhead  
spent on employee  
development

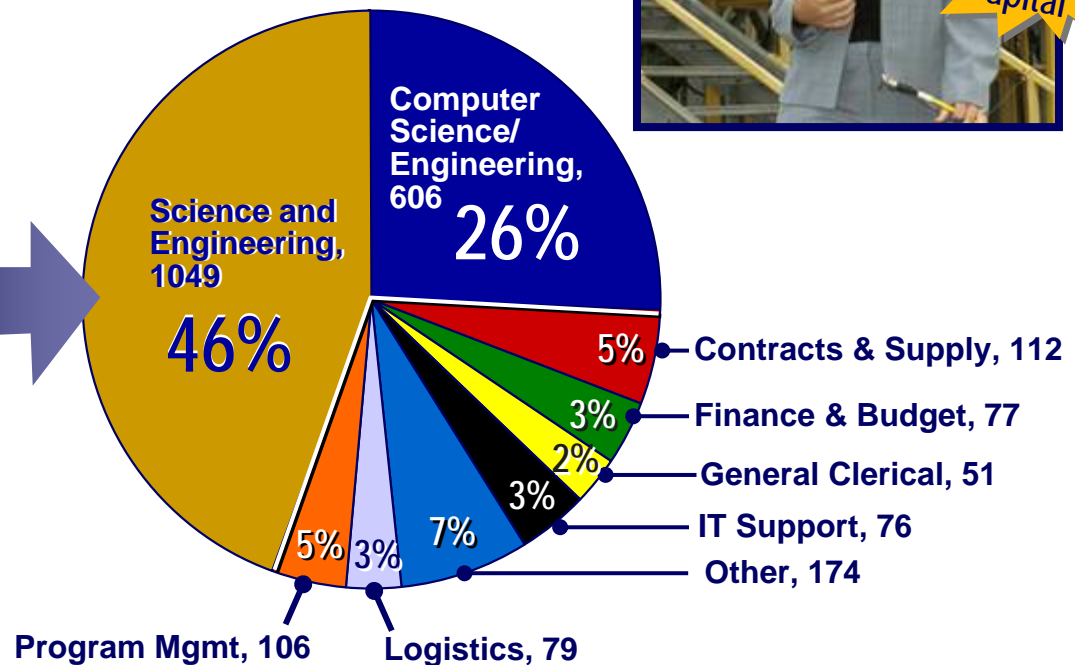


# Succession Planning

- Total workforce of ~2300 employees
- In two years, average workforce age has dropped by four years
- Through college recruiting, we have hired 243 new engineers and computer scientists (May 2003 – March 2006)

Over 70% of our workforce is in an engineering or computer-related discipline

051206



Replenishing  
Intellectual  
Capital



# Observable & Non-observable Diversity

## Beyond EE ...

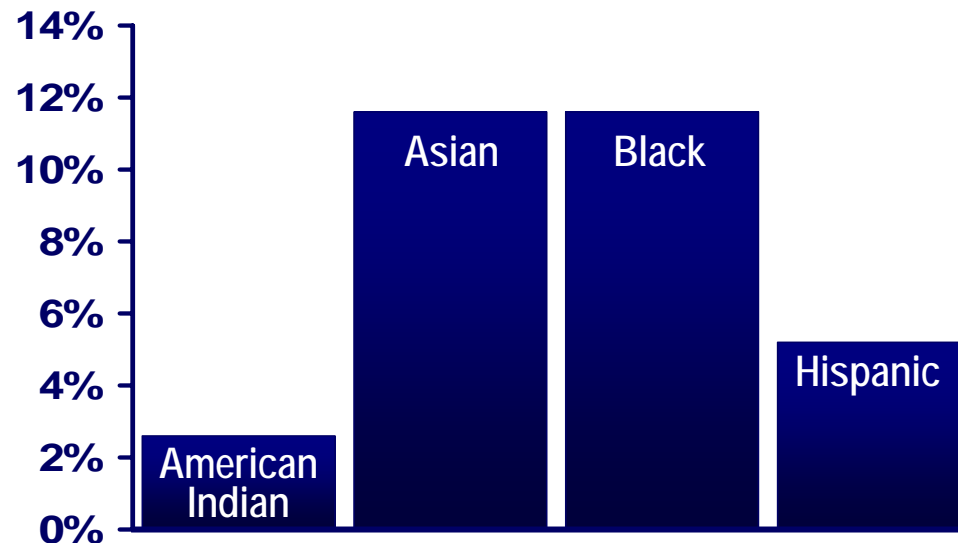
- General Engineers
- Mechanical Engineers
- Industrial Engineers
- Computer Engineers
- Operational Research Analysts

## Special Programs Team

Enhancing the diversity efforts in order to better shape and grow the right workforce. Current focus:

- Awareness of disabled employees
- Awareness of other cultures
- Diversity focus on recruitment

**31% diverse representation in our new professionals**

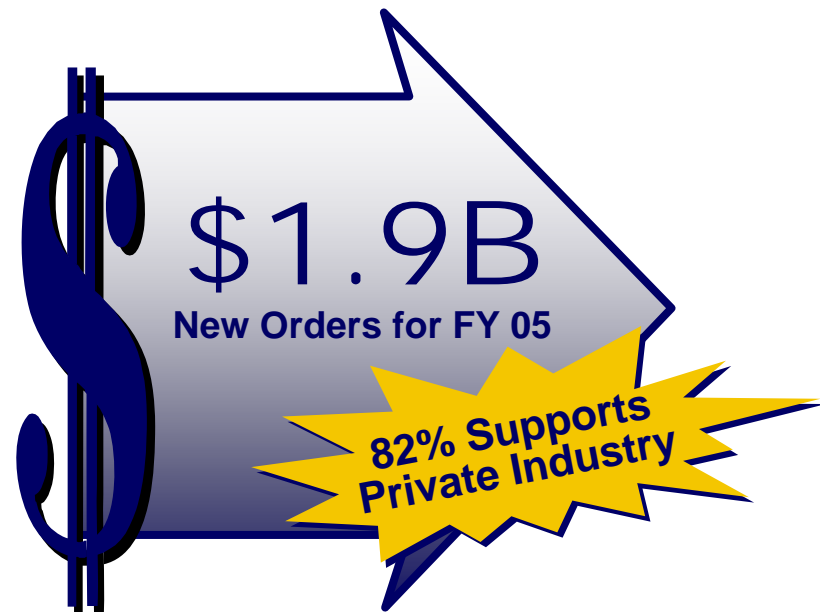
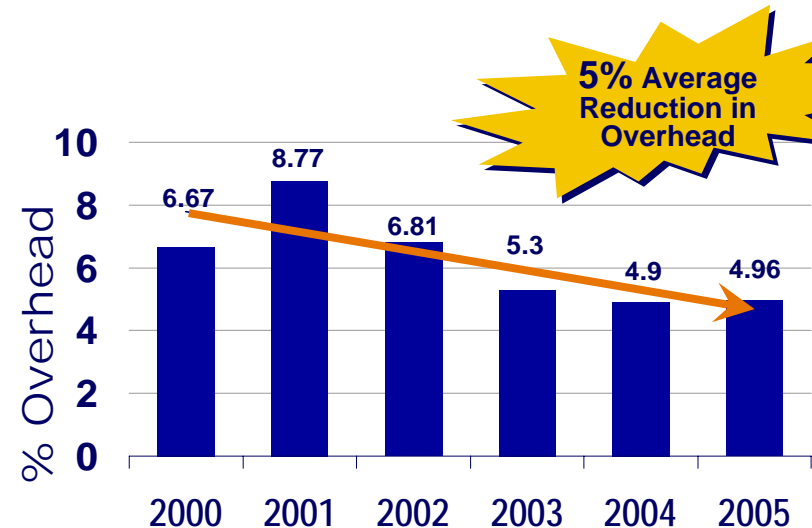
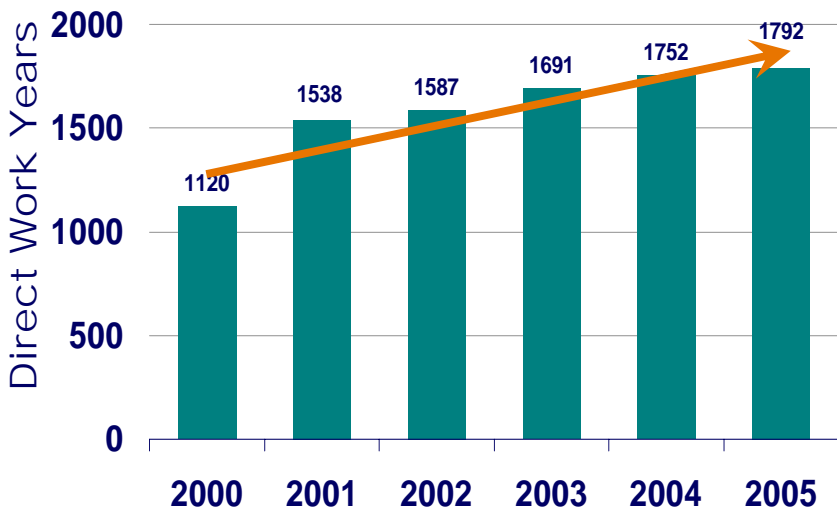
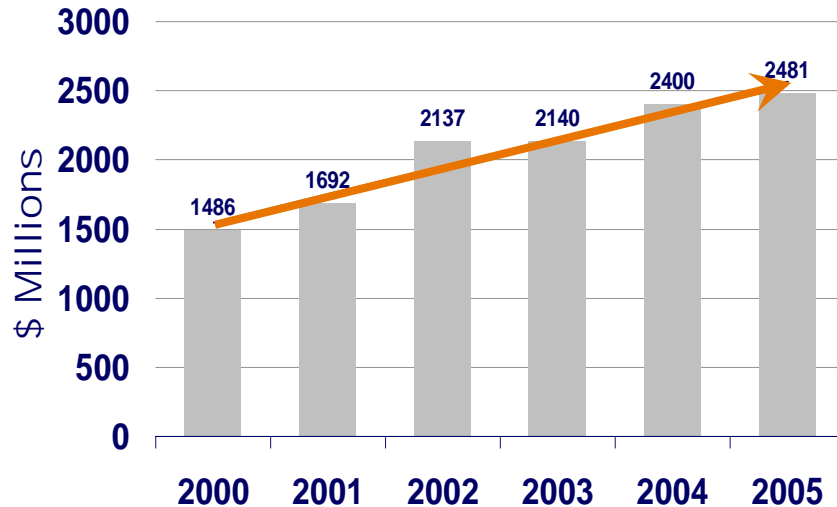


**Valuing differences builds a better product and service.**



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# Financial Indicators



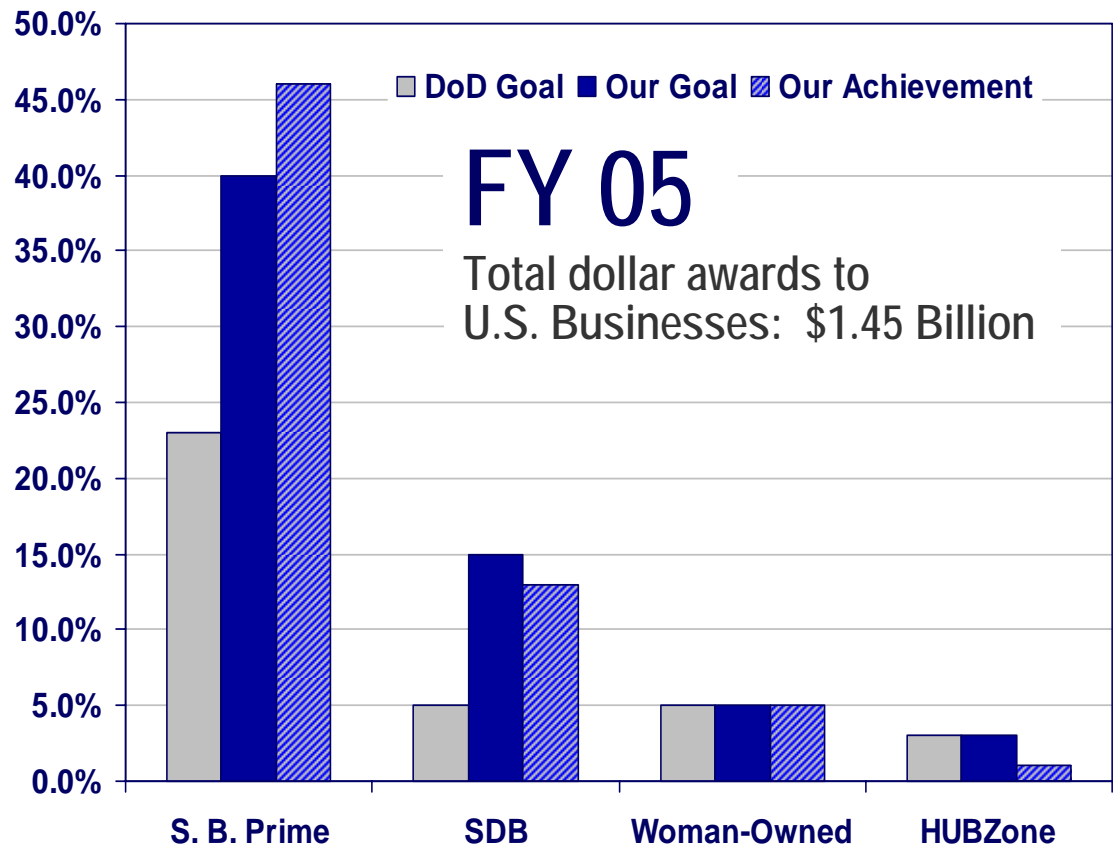
# Commitment to Small Business

**2005 - SBA Administrator's Leadership Award presented to SSCC's Small Business Manager**



**2004 - SBA awarded SSCC an *\*Outstanding* rating for the SBA Compliance Review for 2002-04**

*\*First federal agency to receive this rating.*



Statistics from Procurement Management Review System (PMRS) of Oct 2005



12 Charleston Regional Business Journal

March 20 - April 2, 2006

## SPAWAR to enhance outreach to local businesses

By DAN McCUE  
Staff Writer

The Space and Naval Warfare Systems Center in North Charleston is reaching out to technology businesses in the region interested in being considered for future subcontracting work with the agency.

The initiative, which is scheduled to formally begin May 1, stems from a partnership between SPAWAR, the Charleston Defense Contractors Association and the Armed Forces Communications and Electronics Association.

It will include a streamlining of businesses' ability to communicate with SPAWAR online and quarterly sessions that will allow company officials to meet with agency technicians and representatives at locations in the community away from its secured facility.

"Small business is the backbone of our economy and a very important element in SPAWAR's business model," said Ann Howell, deputy of the agency's small business program.

"On one level, this will provide a greater opportunity for us to do some networking with small technology compa-

nies in the area, (and) at the same time, I think our off-site programs will provide a great opportunity to educate local companies about doing business with SPAWAR and, by extension, with the federal government as a whole," she said.

Howell and her staff are currently in the process of developing a "company-at-a-glance" online data sheet that will help small businesses communicate their qualifications for future contracting and subcontracting opportunities to the agency in a more efficient manner.

The quarterly sessions, held in various communities around Charleston, will also

**‘Small business is the backbone of our economy and a very important element to SPAWAR's business model.’**

**Ann Howell**  
Deputy, SPAWAR small business program

provide businesses with a second opportunity to communicate their qualifications to SPAWAR decision-makers and project managers.

Howell, who recently received the Business Administration's National Tip Award, said the half-day session, more importantly, provide business owners with a form of networking.

of the basic tenets of business is your customer," Howell said. "I'm surprised how many people contact us don't really have a clue at we do."

But, Howell said, "We buy information technology."

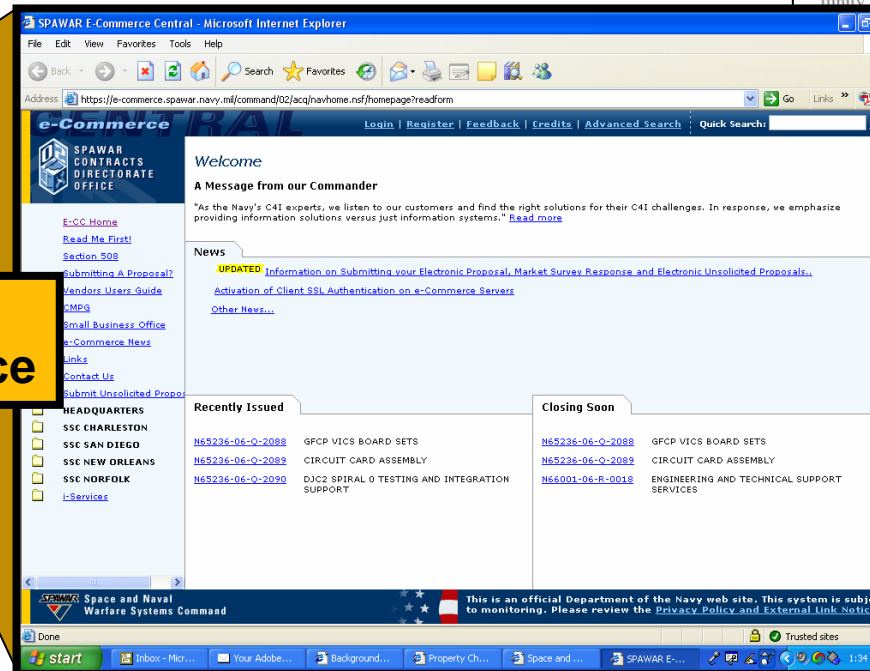
He doesn't discourage any small owners from attending the education of SPAWAR's off-site sessions.

is, in all this, a very big component giving back to the community," Howell said. "So by all means, we're inviting everybody to come for the topics ranging from how to adequate subcontracting plan, to tips, to teaming approaches to contract success stories."

For more information about the initiative to find out when and where introductory sessions with SPAWAR representatives will be held, visit the

Web site at <http://sscc.spawar.navy.mil/>.

Go to  
<http://sscc.spawar.navy.mil>



**Click  
e-Commerce**

**SSCA Small & Disadvantaged Business Utilization (SADBU) Program Office**

Commercial Phone: (843) 218-5111  
DSN: 563-2030 Extension 5115  
Fax: (843) 218-5266  
Pager: (800) 581-3406

The SPAWARSSCEN Charleston (SSC Charleston) Small Business Utilization (SADBU) Program Office advises all small and disadvantaged business matters for the agency. This is defined as one whose total annual contract actions with U.S. business concerns exceed \$100 million in value.

The mission of the SSC Charleston's Small and Disadvantaged Business

# Major Customers

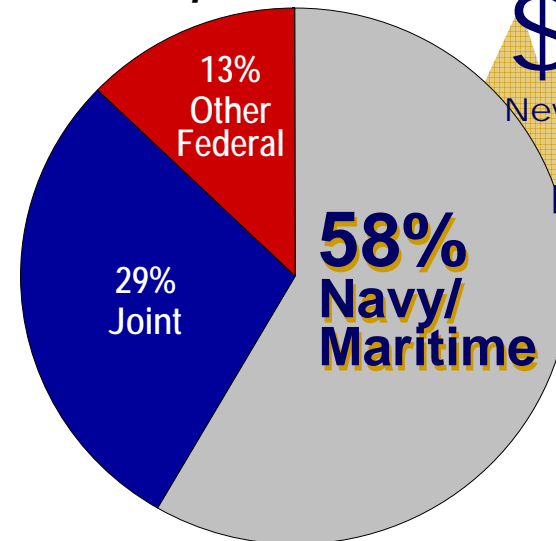
- Navy
- USMC
- Army
- Air Force
- COCOMs
- USJFCOM
- DoD
- Department of State
- Federal Aviation Administration
- Department of Treasury
  - U.S. Mint
- National Science Foundation
- Department of Homeland Security
  - U.S. Border & Transportation Security
  - U.S. Coast Guard
  - U.S. Secret Service
  - Information Assurance / Infrastructure Protection
  - Office of Disaster Preparedness
  - Federal Emergency Management Agency
- Department of Justice

***“SSC Charleston’s ability to produce quality “Boutique”: C4ISR systems makes SSCC a national asset...”***

*BGen Catto,  
MARCORSYSCOM  
25 May 2004*

***“I want to thank you ... at SPAWAR Charleston who are giving that bit of extra effort to do an extremely important job well ... Your efforts are vitally important to the Marines on the front lines.... “***

*LtGen Jan C. Huly, USMC  
05 April 2006*



**\$1.9B**

New Orders for FY 05  
82% supports private industry

***“There should not be seams in technology – no seams when operating with SPAWAR.”***

*Brig Gen Thomas J. Verbeck, EUCOM CIO*





Systems Center  
Charleston

# SPAWAR in the News

30 Charleston Regional Business Journal

Feb. 6 - 19, 2006

## Company expands military research to protect local residents

By DAN MCCUE  
Staff Writer

The Scientific Research Corp. has given the bad guys one more reason to believe crime doesn't pay—technology that will ensure records of earlier misdeeds will follow them whenever they go in the Lowcountry.

Thanks in part to a philosophy born of its longtime relationship with the Space and Naval Warfare Systems Center in North Charleston, the SRC developed the tri-county open-source communication system that allows local law enforcement agencies to communicate critical information to each other about apprehended suspects and alleged criminals on the loose, despite differences in how information is collected and stored in each jurisdiction.

"We've been working with SPAWAR since 1990, and this project kind of grew out of that," said Tim Washington, an SRC vice president and head of its North Charleston office. "By utilizing SPAWAR's philosophy of finding an existing commercial product and retooling it for another use, we've not only enabled law local law enforcement agencies to transfer criminal records in real time, we've been able to do it at a significant cost-savings for these agencies."

Responding to a longstanding need, Washington said SRC began working on

wasn't a communications network to tie those jurisdictional systems together.

"Finally, we came up with a nonproprietary software package that resides at each agency and allows records to be shared more effectively at a very low cost," Washington said. "In fact, it's proved so useful that we're currently in the rolling it out across the state."

SRC, which is headquartered in North Charleston, opened its North Charleston office in 1991 specifically to work on integrated systems and solutions projects for the

The company, which is 80% of its business with clients, currently in buildings on the Washington said SRC whether to expand to move the 100,000-square-foot

One of the ways SPAWAR is able to win the teaming with "That's a branch out."

As a result, working to 16 jurisdictions in the Lowcountry, SRC is now working with the National Law Enforcement Technology Center to ex-

Do you know?

## People in the News

MILITARY

Virginia. This was selected SPAWAR Systems Center Charleston budget office to support the fiscal year 2006 budget. Since joining SPAWAR in 1998, this has worked in the systems analysis and operations branch, in the weapon and systems division and as a branch head in the

**SPAWAR has more than \$1.4 billion economic impact in '05**  
The Space and Naval Warfare Systems Center in Charleston had an economic impact on the tri-county area of more than \$1.4 billion in 2005 from its various communications, reconnaissance and command and control projects, according to SPAWAR.

SPAWAR defines "economic impact" as "total goods and services purchased on the local economy," inclusive of civilian contractor employee payroll.

"The numbers show that the work we do is important to the war on terror, and we couldn't do it without our industry partners," said Marsha L. Hassel, a woman for SPAWAR.

Last year, according to figures released by SPAWAR on Wednesday, the facilities staff included 17 active military duty personnel, comprising a total payroll of \$918,072, and 1,486 civilian employees, whose appropriated payroll amounted to more than \$106 million.

The average civilian employee salary at SPAWAR is now \$71,520.

According to SPAWAR, its local civilian contractors employed 8,482 in 2005, with the total civilian contractor payroll being more than \$831 million.

YOUR COMMUNITY NEWS



group of students from the tri-county area listen to SPAWAR technician Joe Sturm talk about technological equipment at "Sgt. Larry" (left) may use during combat in the Middle East. It, Brittany Umstead, an eighth-grader from Hanahan Middle School, tests out an infrared pocket scope developed at SPAWAR. The device tracks traces of heat and is used by law enforcement and military operations and job opportunities available at the center.



## High-tech military agency invites students in

The Space and Naval Warfare Systems Center in North Charleston is reaching out to technology businesses in the region interested in being considered for future subcontracting work with the agency.

The initiative, which is scheduled to formally begin May 1, stems from a partnership between SPAWAR, the Charleston Defense Contractors Association and the Armed Forces Communications and Electronics Association.

It will include a streamlining of SPAWAR's ability to communicate with great opportunity to educate local companies about doing business with SPAWAR, and by extension, with the federal government as a whole, she said.

Howell and her staff are currently in the process of developing a "company at a glance" online data sheet that will help small businesses communicate their qualifications for future contracting and quality contracting opportunities and job opportunities to the agency in communities around Charleston, will also

and got a better idea as to what goes on at SPAWAR. They climbed the long flights of stairs to the top of the air traffic control tower, saw the large screens in the radar laboratory in direct incoming aircraft and learned how 6,000 beams of light track down to the ground. "It was a real military product to help us see this stuff every day. People don't know what's out there. Five

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Small business is the backbone of our economy and a very important element to SPAWAR's business model. Ann Howell, Deputy SPAWAR small business program

provide businesses with a second opportunity to communicate their qualifications to SPAWAR. Howell said that the program will be a "win-win" for both SPAWAR and the businesses. Howell said that the program will be a "win-win" for both SPAWAR and the businesses. Howell said that the program will be a "win-win" for both SPAWAR and the businesses.



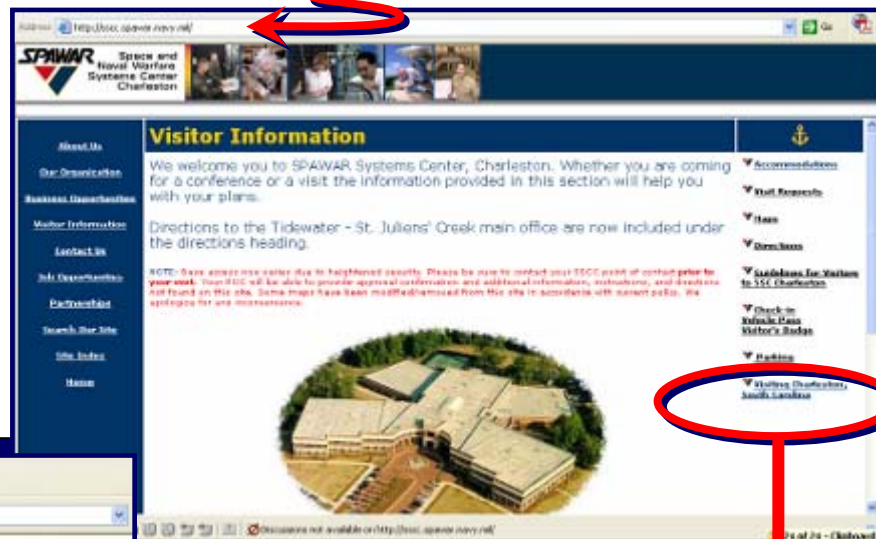
# Charleston Area Economic Impact

**Our website: <http://sscc.spawar.navy.mil>**

• Civilian Personnel\* \$ 99,694,194  
 • Military Personnel \$ 900,368  
 • Goods & Services \$ 1,340,214,775

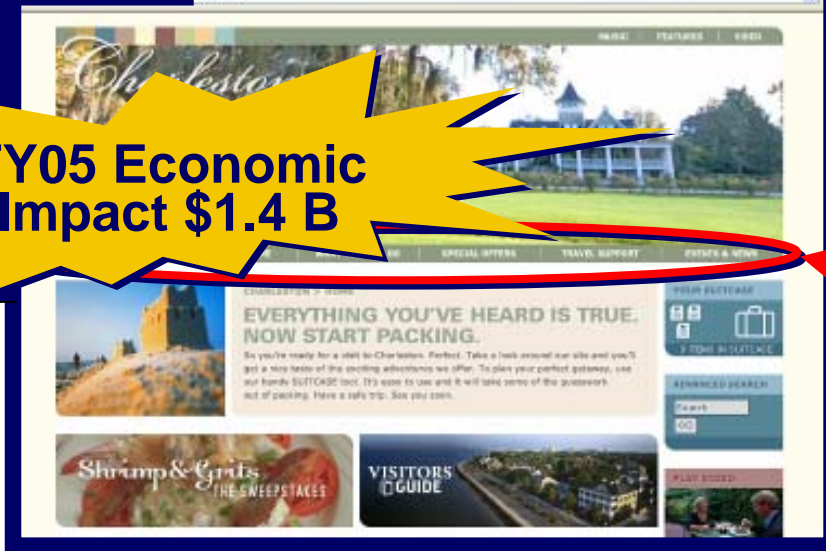
**\* Average Salary:  
\$73,317**

**FY05 Economic  
Impact \$1.4 B**



**Visiting  
Charleston, S.C.**

**SSC- Charleston hosts over  
6,000 visitors each year**



# Partnerships with the Community

**SSCC supports programs and partnerships that help make our communities better, stronger, and a more vibrant places to live, work, and do business.**

Special Olympics, Rotary,



Chamber of Commerce, Navy Family Services, Navy League



Volunteer Service, AFCEA, Educators in Industry Program, Career & Science Fairs

Science and Technology Seminars, Business Education Partnership, Essay Contests, Big Brothers/Big Sisters, Toastmasters

# Questions?